

R-4312-D

Low-Frequency Oscillations in a Glow Discharge.

~~RUSSIAN~~
~~RUSSIAN~~, per, Chekhosl Fiz Zhur, Vol VII, 1957,
pp 509-510.

*JPRS/Air Force

Sci
Aug 64

Frail, Z.
ON THE QUESTION OF THE INHOMOGENEITY OF
DEMAGNETIZING FIELDS IN FERROMAGNETIC
RESONANCE. 17 Mar 59, 9p. 12 refs. LL-TF-13.
Order from OTS or SLA \$1.10 59-14902

Trans. of [Chekhoslovatskii Fizicheskii Zhurnal]
1958, v. 8, no. 1, p. 113-119.

DESCRIPTORS: Electromagnetic waves, Propagation,
*Ferrites, *Magnetic fields, *Resonance, Numerical
analysis.

A method is proposed for the quantitative computation
of the influence of inhomogeneities of the demagnetiz-
ing fields on the shape of the resonance curves. An
approximate computation is made for a definite ex-
perimental apparatus. Examples are presented when
the inhomogeneity of the demagnetization has a signifi-
cant influence on resonance curves of ferromagnets.

(Author)
(Physics--Magnetism, TT, v. 8, no. 5)

59-14902

- I. Frail, Z.
- II. LL-TF-13
- III. Lincoln Lab., Mass. Inst.
of Tech., Lexington

7-19-62
Office of Technical Services

Felfer, Jaronlav.
THE MEASUREMENT OF ELASTIC TENSIONS IN
CERAMIC INSULATORS OF SINTERED CLAY BY
X-RAY DIFFRACTION. [1961] 3p. [4 refs. omitted].
Order from SIA \$1.10 61-14967

RUSSIAN
Trans. of [Chekhoslovatskii Fizicheskii Zhurnal] 1958,
v. 8, no. 3 [p. 330-331] (abstract of original article
in Chekhoslovatskii Fizicheskii Zhurnal, 1958, v. 8,
no. 3, p. 322-329).

DESCRIPTORS: *Ceramic materials, Electric insula-
tion, *Insulating materials, *Clays, X-ray diffraction
analysis, Stresses, Elasticity, Sinters.

See 61-14988

(Engineering--Electrical, TT, v. 6, no. 8)

61-14967

I. Felfer, J.

185684

Office of Technical Services

Felfer, Jaroslav.
RONTGENOGRAPHIC MEASUREMENT OF THE
ELASTIC STRESSES IN CERAMIC INSULATORS OF
SINTERED CORUNDUM. [1961] [14]p. 4 refs.
Order from SLA \$1.60 61-14988

RUSSIAN
Trans. of Cherkhovskii Fizicheski Zhurnal, 1958,
v. 8, no. 3, p. 322-329.

DESCRIPTORS: *Corundum, *Ceramic materials,
*Insulating materials, Electric insulation, Stresses,
Measurement, X-rays, Elasticity, Sintering.

Results are cited of the röntgenographic measurement
of the course of the elastic stresses in an insulator of
fused Al_2O_3 with the aid of the $K\alpha$ radiation of copper
and with the use of aluminum in the form of the corre-
sponding metal. The accuracy of determination of the
chief components of the stress was found by calculation
and the reproducibility of the measured values of the
stress was also studied. (Author)
(Engineering--Electrical, TT, v. 6, no. 5)

61-14988

I. Felfer, J.

180439

Office of Technical Services

On the Photoelectroluminescence of ZnS-Cu, by
K. Patek, 3 pp.
RUSSIAN
~~SECRET~~, per, Chekhoslovatskii Fizicheskii Zhurnal,
Vol VIII, N 1958, p 612.

SLA 60-14022

Sci

OTS, Vol III, No 7

Nov 60

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A New Type of Luminescent "C-Meter", by K.
Patek, 5 pp.

RUSSIAN

~~CONFIDENTIAL~~, per, Chekhoslovatskii Fizicheski Zhurnal,
Vol VIII, 1958, p 612.

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Sci

OTS, Vol III, No 7

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Nov 60

Skrivanek, J. and Kuzniak, M.
SENSIBILITE LOCALE DES PHOTOCATHODES DE
PHOTOMULTIPLICATEURS (Local Sensitivity of
Photocathodes and Photomultipliers) tr. by
S. Tarasenko. 6 June 61 [14p. 1 ref. CEA Trans.
no. R 1367 (text in French).
Order from OTS, SLA, or ETC \$1.60 TT-63-23540

Trans. in French of [Chekhoslovatskii Fizicheski
Zhurnal] 1959, v. 9, p. 112-117.

DESCRIPTORS: *Photomultipliers, Phototubes,
Electron tubes, Sensitivity.

(Physics--Electronics, TT, v. 11, no. 1)

TT-63-23540

I. Skrivanek, J.
II. Kuzniak, M.
III. CEA-tr-R1367
IV. Commissariat à l'Energie
Atomique (France)

Office of Technical Services

Stourac, Ladislav.
INFLUENCE OF AGEING ON CHANGE IN ELECTRICAL PROPERTIES OF SEMICONDUCTING SYSTEMS $\text{Bi}_2\text{Te}_3\text{-Bi}_2\text{Se}_3$ (Vliyaniye Stareniya na Elektricheskije Svoistva Poluprovodnikovoi Sistemy $\text{Bi}_2\text{Te}_3\text{-Bi}_2\text{Se}_3$). [1961] [12]p. (foreign text included) 16 refs.

Order from SLA \$1.60

61-20882

Trans. in manuscript of [Chekoslavatskii Fizicheski Zhurnal] 1959, v. 9, p. 717-720.

DESCRIPTORS: Bismuth compounds, Tellurides, Selenides, *Semiconductors, Aging, Electrical properties.

(Physics--Solid State, TT, v. 7, no. 4)

61-20882

1. Stourac, L.

Office of Technical Services

Formation of Cathode Spots and Current Density Dis-
tribution in Cathode Spots of Short-Time-Intensity
Electric Discharge, by E. Zizka, 13 pp.
CZECH, per, Chekhoslovatskiy Fiz Zhur, No 10, 1960,
pp 327-333. 9692137
FTD-TT-63-1071

Sci - Elec
Apr 64

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Influence of Oxygen Content on Electric and Thermo-
electric Properties of Ternary System $\text{Bi}_2\text{Te}_{3-x}\text{Se}_x$.
by K. Smirova, L. Stourac.
RUSSIAN, per. Chislenn. Fiz. Zhur., Vol X, 1960,
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*AEC

Sci-Phys
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Seidl, R.
ON THE PROBLEM OF EXO-ELECTRON EMISSION
(Zum problem der Exoelektronenemission). [1961]
27p. 42 refs.
Order from SLA \$2.60

61-20549

Trans. of [Chekhoslovatskii Fizicheski Zhurnal]
1960, v. 10, p. 931-948.

DESCRIPTORS: *Secondary emission, Electronics,
X-rays, Sodium compounds, Chlorides, Potassium
compounds, *Alkali metal compounds, *Halides,
Luminescence, Electrical conductance, X-ray ab-
sorption analysis, X-ray spectrum, Measurement,
Solids, Surface properties, Photoengraving, Exci-
tation, Temperature, Films, Ionization.

Some new experiments on exo-electron emission from
alkali-metal halides have been performed, and the
chief problems of exo-electron emission are dis-
(Physics--Electronics, TT, v. 7, no. 5) (over)

1. Seidl, R.

Office of Technical Services

Roubinek, F.
THE EFFECT OF NITROGEN ON EXOELEC-
TRONIC EMISSION OF GERMANIUM (Über den
Einfluss von Stickstoff auf die Exoelektronenemission
von Germanium). [1961] 7p. 5 refs.
Order from SLA \$1.10 61-20547

Trans. of Khokhoslovatskii Fizicheskii Zhurnal
1960, v. 10, p. 949-953.

DESCRIPTORS: *Nitrogen, Effectiveness, Atoms,
Surfaces, X-rays, Excitation, *Germanium,
*Secondary emission, Ion bombardment, Photo-
engraving, Electronics, Lattices, Measurement,
Direct current, Gas discharges, Argon, Binders.

The effect of bombardment with nitrogen ions before
excitation was investigated, and it is shown that the
nitrogen atoms play a large part in the genesis of the
emission maximum at 150°C. (Author)

61-20547

I. Roubinek, F.

(Physics--Electronics,
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Coherent Radiation of Synchrotron Electron
Clusters in a Closed Resonator, by
J. Vaclavik, 11 pp.

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5 i-Phys
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A Solution of the Motion of a Charged Particle
in Magnetic Mirror Systems, by J. Lacina.

CZECH, per, Chekhos Fiz Zhur, Vol XIII, No 6,
1963, pp 401-417.

*FTD-TT-64-1015

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Behavior of Cathode Spots in a High-Current
Electric Discharge, by V. Grakov, Y. Harinouch, 17 pp.
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No 7, 1963, pp 509-517, 9693230
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Sci - Elec
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The Influence of Transitional Effects on the
Measurement of Magnetization Curves by the
Commutational Ballistic Method, by L. Uher.
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Vol XIII, No 8, 1963, pp 56-59.
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May 64
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Forbidden Lines in the Hyperfine Spectrum
of the Electron Paramagnetic Resonance of
Mn⁺⁺In Batio Sub 3, by M. Odehnal.

CZECH, per, Czechoslovatskiy Fizicheskiy
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Sci/Electronics
Dec 65

TT-65-62700

Field 20I, 21B, 21D, 10B

Grycz, B.
COMBUSTION PRODUCTS PLASMA OF $C_2H_2 + O_2$
(Plasma Spallin $C_2H_2 + O_2$). Aug 65, 21p. 16 refs.
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p509-21 1964.
Translated under contract DA44 009AMC930T.

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II. Title: Plasma ...
III. AERDL-T-1749-65
IV. Army Engineer
Research and
Development Lab.,
Fort Belvoir, Va.,
V. Holman (John F.) Co., Inc.,
Washington, D. C.
VI. Contract DA44 009AMC930T

A New Method for Measuring Thermal and
Thermoelectric Characteristics of
Substances Particularly Semiconductors,
of Undefined Shape, by J. Krempasky.
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Zhurnal, Vol 14, No 7, pp 533-554.
*FTD-TT-65-1840

Sci/Electronics
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Hydromagnetic Instability of Contra-
streaming Plasmas, by A. Hruska,
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Spectral Analysis of Structures Standing in
the Plasma of a Positive Column Low-Pressure
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Spectral Analysis of Structures
Standing in the Plasma of a Positive
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Parts I and II, by M. Katkov.
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Sol - Biol & Med Jol
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The Biochemistry of Alpine Climates,
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The Races of Mankind, by M. Hesturkh,
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II, IV, V and VII - XII.
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Gear and Equipment for Underwater Sports,
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Specific Diseases of Divers and Underwater
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Chapter VII, pp 279-331.

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rockets aircraft

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Sci - Space Res
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